

CLAIMS

1. A transmission-reception apparatus receiving ARQ control information representing existence of a retransmission requirement of a packet corresponding to a sequence number which contains a corresponding packet's error, then retransmitting a whole packets consisting of a packet corresponding to a sequence number instructed by said ARQ control information and packets finished transmission corresponding to sequence numbers followed on the heels of the latest sequence number about temporal order from among sequence numbers which are instructed by said ARQ control information.

2. A transmission-reception apparatus according to claim 1, wherein said ARQ control information includes one sequence number corresponding to a first occurrence of packet' error and bit information representing existence of retransmission requirements about sequence numbers followed on the heels of said one sequence number.

3. A transmission-reception apparatus receiving an ARQ control information which is comprised of one inner-frame position information corresponding to a first occurrence of packet's error and bit information representing existence of a retransmission requirement about position information concerning positions followed on the heels of the position corresponding to said one inner-frame position information, then retransmitting a whole packets consisting of a packet

corresponding to a position instructed by said ARQ control information and packets finished transmission corresponding to numbers followed on the heels of the number of the latest position about temporal order from
5 among positions instructed by said ARQ control information.

4. A transmission-reception apparatus according to claim 1, wherein said ARQ control information includes frame numbers indicating a position of a frame.

10 5. A transmission-reception apparatus according to claim 1, wherein said transmission-reception apparatus deletes prescribed low order bit of the sequence number.

15 6. A transmission-reception apparatus according to claim 5, wherein said transmission-reception apparatus changes adaptively number of low order bit to be deleted.

20 7. A transmission-reception apparatus according to claim 1, wherein said ARQ control information is transmitted by a common channel.

8. A transmission-reception apparatus according to claim 1, wherein the same sequence number is set within prescribed data unit.

25 9. A transmission-reception apparatus according to claim 1, wherein said transmission-reception apparatus transmits a plurality of ARQ control information continuously.

10. A transmission-reception apparatus according to claim 1, wherein said transmission-reception apparatus changes configuration of said control information in compliance with either occurrence
5 condition of error or line quality.

11. A transmission-reception apparatus according to claim 1, wherein said transmission-reception apparatus changes number of bit which configures said ARQ control information in compliance with either
10 occurrence condition of error or line quality.

12. A communication terminal apparatus which is provided with a transmission-reception apparatus described in claim 1.

13. A base station apparatus which is provided
15 with a transmission-reception apparatus described in claim 1.

~~14.~~ An error control method comprising the steps of:

receiving of ARQ control information representing
20 existence of a retransmission requirement of a packet corresponding to a sequence number including occurrence of a corresponding packet's error; and

retransmitting of the whole packets consisting of a packet corresponding to a sequence number instructed
25 by said ARQ control information and packets finished transmission corresponding to numbers followed on the heels of the latest sequence number about temporal order

15. An error control method according to claim 14,
wherein said ARQ control information includes one
5 sequence number containing first occurrence of a
corresponding packet' error, and bit information
representing existence of retransmission requirements
about sequence numbers followed on the heels of said one
sequence number.